ABSOLUTE
ANGLE SENSOR
Your innovative solution

COMPACT & MODULAR - REDUCED LIFE CYCLE COST - PRECISE & RELIABLE
Modular design
The 2 part design (sensor+magnetic ring) is easily integrated into your application. It also provides easier maintenance.

Cylindrical design
The standard « speed sensor design » offers compactness, easy integration, as well as efficient sealing.

Through shaft
Our through shaft magnetic solutions offers:
- high resolution & high accuracy
- space saving and new integration possibilities.

Magnetic principle
A non-contact magnetic measurement offers reliability in many kinds of environment.

YOU’RE LOOKING FOR COMPACT, RELIABLE & COST-EFFECTIVE SOLUTION TO MEASURE YOUR SHAFT POSITION
We propose an innovative and unique solution
Range overview
- Version 1 for cost-effective solution: SSI or BiSS signals with 2 magnetic ring diameters: Ø78.5 or Ø37.5mm
- Version 2 for BiSS+ABZ signals & other magnetic ring diameters

Offer characteristics
- High performance measurement with resolution from 13 to 17 bits.
- Accuracy down to ±0.1°
- Programmable output (resolution, rotation direction, zero angle)
- Temperature from -40°C to 110°C

Sensor 1
<table>
<thead>
<tr>
<th>Version</th>
<th>V1</th>
<th>V2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length L (mm)</td>
<td>48</td>
<td>48</td>
</tr>
<tr>
<td>Tube Ø (mm)</td>
<td>17.5 / 14</td>
<td>22 / 17.5</td>
</tr>
<tr>
<td>Cable</td>
<td>BiSS or SSI: 10 wires</td>
<td>BiSS/SSI: 10 wires +ABZ: 16 wires</td>
</tr>
</tbody>
</table>

Magnetic ring 2
<table>
<thead>
<tr>
<th>Version</th>
<th>Ring 1</th>
<th>Ring 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer Ø (mm)</td>
<td>78.5</td>
<td>37.5</td>
</tr>
<tr>
<td>Shaft Ø (mm)</td>
<td>75</td>
<td>34</td>
</tr>
<tr>
<td>Inner Ø (mm)</td>
<td>68</td>
<td>28</td>
</tr>
</tbody>
</table>

Positioning tolerances
- Air Gap: 0.75±0.5mm
- Axial position: ±1mm
- Angular: ±3°
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NTN-SNR SUPPORTS YOU
IN YOUR INNOVATIVE PROJECTS

Feel free to contact us:
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